

USSN. 09/334,891
A.U. 1772
Facsimile Transmission of January 28, 2002

Page: 2

the creased pattern not presenting breaks causing the breakage of the material by folding along lines of the pattern.

5. (Amended) Multi-layer material according to claim 1 in which the polyester film is a film subjected on one side to a treatment capable to impart gas barrier properties or is coated with a layer of material having gas barrier properties, in such small quantity that the film can be considered in recycling as foamed of only polyester material.

16. (Amended) [Containers] Recyclable containers for beverages or foods manufactured from the multi-layer material according to claim 1.

Please cancel claim 2 and add the following new claim 22:

22. Multilayer material according to claim 1 in which the polyester forming the multilayered material is an aromatic polyester obtained by polycondensation of an aromatic dicarboxylic acid with a diol of 2-12 carbon atoms.

USSN. 09/334,891

Page: 3

A.U. 1772

Facsimile Transmission of January 28, 2002

Clean Version of all the pending claims:

B1 *[Handwritten signature]*
1. Recyclable heat-sealable multi-layer polyester material suitable for the production of containers for beverages and foods, formed of a layer of a foamed polyester resin sheet having density lower than 700 kg/m^3 and, adhered to the foamed sheet, a heat-sealable film of polyester resin, having a melting point from 50° to 200°C , said material having creased on it a pattern suitable to develop by folding the shape of a container, the creased pattern not presenting breaks causing the break age of the material by folding along lines of the pattern.

3. Multi-layer material according to claim 2 in which the polyester film is obtained from a resin with melting point from 80 to 110°C .

4. Material according to claim 1 in which the polyester film is a coextruded dual layer film, one layer of which is formed of a low melting polyester having a melting point from 50° to 200°C and the other layer is a polyester having a melting point higher than 200°C .

B2 *[Handwritten signature]*
5. Multi-layer material according to claim 1 in which the polyester film is a film subjected on one side to a treatment capable to impart gas barrier properties or is coated with a layer of material having gas barrier properties, in such small quantity that the film can be considered in recycling as foamed of only polyester material.

6. Material according to claim 5 in which the polyester film having barrier properties presents oxygen permeation rate lower than $70 \text{ ml/m}^3/24\text{h/atm}$ (ASTM 1434).

7. Material according to claim 6 in which the polyester film is metallized with Al or coated with a layer of aluminum or silicon oxide.

8. Multi-layer material according to claim 6 in which the polyester film is coated with a layer of potassium or lithium polysilicates.

9. Material according to claim 1 in which the polyester film is obtained from a copolyethylene terephthalate in which more than 10% of the units deriving from terephthalic acid are substituted with units deriving from isophthalic acid.

10. Multi-layer material according to claim 1 in which the polyester film is made to adhere to the foamed sheet by using a polyester glue or by hot lamination.

11. Multi-layer material according to claim 1 in which the foamed sheet has a density from 10 to 500 kg/m^3 .

12. Multi-layer material according to claim 1 in which the foamed sheet has a density from 100 to 200 kg/m^3 .

USSN. 09/334,891

A.U. 1772

Facsimile Transmission of January 28, 2002

Page: 4

13. Multi-layer material according to claim 1 having a thickness from 0.2 to 3 mm.
14. Multi-layer material according to claim 13 having a thickness from 0.2 to 1.5 mm.
15. Multi-layered material according to claim 1 in which the polyester resin of the foam sheet is selected from polyethylene terephthalate and copolyethylene terephthalates in which up to 20 % of the units derives from isophthalic acid.

B3 ~~16. Recyclable containers for beverages or foods manufactured from the multi-layer material according to claim 1.~~

17. Containers according to claim 16 in which the layer that comes into contact with the beverage or food is made of a polyester film adhered to the foamed polyester sheet, and in which the closure is realized by heat sealing on itself the polyester film adhered to the foamed sheet.

18. Containers according to claim 17 for fruit juices or sterilized milk in which the polyester film is treated on the side adhered to the foamed sheet with a material capable of conferring barrier properties corresponding to oxygen permeation rate lower than 70 ml/m²/24h/atm.

19. Containers according to preceding claim 18 in which the oxygen permeation rate of the treated polyester film is less than 10 ml/m²/24h/atm.

20. Containers according to preceding claim 19 in which the oxygen permeation rate is less than 0.3 ml/m²/24h/atm.

21. Containers according to claim 19 in which the polyester film is coated with a layer aluminum or Al and/or Si oxide.

22. Multilayer material according to claim 1 in which the polyester forming the multilayered material is an aromatic polyester obtained by polycondensation of an aromatic dicarboxylic acid with a diol of 2-12 carbon atoms.